



transfer function fiber gyro

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### Stochastic and dynamic modeling of fiber gyros - group of 3 »

MS Bielas - Proc. of the SPIE, 1994 - adsabs.harvard.edu

... Given are some of the issues arising in applying the discrete **transfer function** of the **fiber gyro** under deterministic forcing functions. ...

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### Theory of polarization evolution in interferometric fiber-optic depolarized gyros - group of 6 »

B Szafraniec, GA Sanders - Journal of Lightwave Technology, 1999 - ieeexplore.ieee.org

... **fiber** light source spectrum can be described as a sum of Gaussian functions. In the subsequent sections we calculate the **gyro transfer function** and analyze the ...

Cited by 12 - [Web Search](#) - [BL Direct](#)

### Elliptical-core two-mode optical-fiber sensor implementation methods - group of 4 »

KA Murphy, MS Miller, AM Vengsarkar, RO Claus - Journal of Lightwave Technology, 1990 - ieeexplore.ieee.org

... lead-in, for the **transfer** of optical power to the sensing ... modes are excited equally in the e-core **fiber**, the output ... the two modes and will be a **function** of the ...

Cited by 22 - [Web Search](#) - [BL Direct](#)

### The use of GPS based velocity measurements for improved vehicle state estimation (I) - group of 2 »

DM Bevy, JC Gerdes, C Wilson, G Zhang - PROCEEDINGS OF THE AMERICAN CONTROL CONFERENCE, 2000 - ieeexplore.ieee.org

... sensor noise of the **gyro** The KVH Fiber Optic Gyro ... as opposed to integration of a **gyro**) in order ... angle were manipulated to obtain the **transfer function** from yaw ...

Cited by 21 - [Web Search](#) - [BL Direct](#)

### A new transfer matrix formalism for the analysis of fiber ring resonators: compound coupled ... - group of 2 »

J Capmany, MA Muriel - Journal of Lightwave Technology, 1990 - ieeexplore.ieee.org

... MATRIX FORMALISM Compound all-**fiber** ring resonators are based ... in determining its intensity transmission **function** T. If the individual **transfer** matrices of ...

Cited by 13 - [Web Search](#)

### Dispersion slope equalizer for dispersion shifted fiber using a lattice-form programmable optical ... - group of 5 »

K Takiguchi, S Kawanishi, H Takara, A Himeno, K ... - Journal of Lightwave Technology, 1998 - jlt.osa.org

... Next, we define the equalizer **transfer function** with the negative ... be approximated by a quadratic **function** with respect ... was in resonator-type **fiber-optic gyro** ...

Cited by 20 - [Web Search](#) - [BL Direct](#)

### [book] Fiber optic smart structures - group of 3 »

E Udd... - 1995 - ieeexplore.ieee.org

... Confinement of a propagating light beam to the region of the **fiber** cores and power **transfer** from two closely placed **fiber** cores can be used to produce a series ...

Cited by 149 - [Web Search](#) - [Library Search](#) - [BL Direct](#)

### Pointing grade fiber optic gyroscope - group of 4 »

K Killian - IEEE Aerospace and Electronic Systems Magazine, 1994 - ieeexplore.ieee.org

... gain for the phase modulator voltage-phase **transfer function**. ... birefringent polarization maintaining optical **fiber** wound on ... procedure-with the **gyro** diameter and ...

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### Theory of polarization evolution in interferometric **fiber**-optic depolarized gyros - group of 6 »

B Szafraniec, GA Sanders - Journal of Lightwave Technology, 1999 - ieeexplore.ieee.org

... other spectra, eg, a superfluorescent **fiber** light source ... we calculate the gyro **transfer function** and analyze ... configuration of a depolarized **gyroscope** which is ...Cited by 12 - [Web Search](#) - [BL Direct](#)

### Pointing grade **fiber** optic **gyroscope** - group of 4 »

K Killian - IEEE Aerospace and Electronic Systems Magazine, 1994 - ieeexplore.ieee.org

... a "pointing grade" **fiber** optic **gyroscope** (PG FOG ... gain for the phase modulator voltage-phase **transfer function**. **Fiber** Sensor Coil The prototype PG FOG sensor ...Cited by 6 - [Web Search](#) - [BL Direct](#)

### Sagnac Interferometer for Gravitational-Wave Detection - group of 4 »

KX Sun, MM Fejer, E Gustafson, RL Byer - PHYSICAL REVIEW LETTERS, 1996 - link.aps.org

... The **gyroscope** interferometer is a ring that en ... due to development of advanced **fiber**-optic gyroscopes [11 ... 3. Theoretical **transfer function** (solid line) and experi ...Cited by 24 - [Web Search](#) - [BL Direct](#)

### Drift of an optical **fiber** **gyroscope** caused by the Faraday effect- Influence of the earth's magnetic ... - group of 5 »

K HOTATE, K TABE - Applied Optics, 1986 - ao.osa.org

... Figure 6 shows the bias change as a **function** of the ... In this model, the **transfer** matrix of each section is ex ... where L is the **fiber** length, and , and r, change as ...Cited by 7 - [Web Search](#)

### Linearized Optical Modulator with Fifth Order Correction - group of 4 »

WK Bums - JOURNAL OF LIGHTWAVE TECHNOLOGY, 1995 - ieeexplore.ieee.org

... by directional couplers is obtained that eliminates both the third and fifth order coeffi- cients of the Taylor series representation of the **transfer function**. ...Cited by 11 - [Web Search](#) - [BL Direct](#)

### A Variable-Loop Sagnac Interferometer - group of 3 »

X Fang - JOURNAL OF LIGHTWAVE TECHNOLOGY, 1996 - ieeexplore.ieee.org

... source is much larger than the peak period of the intensity **transfer function**. ...Considering the typical phase detection sensitivity in a **fiber gyroscope** is in ...Cited by 5 - [Web Search](#) - [BL Direct](#)

### Noise analysis of an amplified **fiber**-optic recirculating-ring delay line - group of 5 »

JT Kringlebotn, K Blotekjaer - Journal of Lightwave Technology, 1994 - ieeexplore.ieee.org

... The symbol @ denotes convolution and h,(t) is a **transfer function** representing the accumulated gain after m recirculations in the **fiber** ring and the optional ...Cited by 10 - [Web Search](#) - [BL Direct](#)

### Design and development of a MEMS-IDT **gyroscope** - group of 6 »

VK Varadan, WD Suh, PB Xavier, KA Jose, VV Varadan - SMART MATERIALS AND STRUCTURES, 2000 - iop.org

... Rotating wheel gyroscopes, **fiber** optic gyroscopes and ... translate to an efficient **gyroscope** design, if ... SAW delay line and filter **transfer function** computation [16 ...Cited by 10 - [Web Search](#) - [BL Direct](#)

### **Fiber Resonator Gyroscope**: Sensitivity and Thermal Nonreciprocity - group of 7 »

DM Shupe - Applied Optics, 1981 - ao.osa.org

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	17687	gyro or gyroscope or Sagnac	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:38
L2	577556	fiber or fibre	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:38
L3	41475	transfer function	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:38
L4	193	1 and 2 and 3	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:05
L5	10	1 with 2 same 3	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:08
L6	66	4 and "356"/\$.ccls.	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:22
L7	41409	3 not 6	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:11
L8	66	3 not 7	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:11
L9	19	4 and "385"/\$.ccls. not 6	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:23
L10	108	4 not (6 or 9)	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:24
L11	41367	3 not 10	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:24
L12	108	3 not 11	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:24
L13	103834	transfer with function	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:39
L14	338	1 and 2 and 13	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:28
L15	265	14 and design	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:29
L16	73	14 not 15	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:32
L17	45	15 and "356"/\$.ccls.	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:33
L18	14	15 and "385"/\$.ccls. not 17	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:34
L19	7	15 and "250"/\$.ccls. not (17 or 18)	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:35
L20	199	15 not (17 or 18 or 19)	US-PGPUB; USPAT	ADJ	ON	2006/02/14 09:35

## EAST Search History

L21	14973	gyro or gyroscope or Sagnac	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:38
L22	772050	fiber or fibre	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:38
L23	11375	transfer function	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:38
L24	24015	transfer with function	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:39
L25	404685	design	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:39
L26	7	21 and 22 and 23	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:41
L27	8	21 and 22 and 24	EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:41